

UNITED STA* DEPARTMENT OF COMMERCE Patent and Travemark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY, DOCKET NO.
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			EXAMINER **
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COMMISSIONER OF PATE	NTS AND TRADEMARKS	your application.	
i	O	FFICE ACTION SUMMARY	
Responsive to communic	ration(s) filed on	11/27	-
u	adon(s) filed on		
This action is FINAL.			
Since this application is in	n condition for allowance	except for formal matters, prosecution	on se to the moulte le alone d'in
accordance with the prac	tice under <i>Ex parte Qua</i>	yle, 1935 D.C. 11; 453 O.G. 213.	as to the ments is closed in
shortened statutory period	for response to this actic	on is set to expire	
nichever is longer, from the r	mailing date of this comr	nunication Failure to respond within the	month(s), or thirty days,
e application to become aba 136(a).	ındoned. (35 U.S.C. § 1	33). Extensions of time may be obtain	ed under the provisions of 37 CFR
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sposition of Claims			
Claim(s)/ ~	8 9 16-19		is/are pending in the application.
Of the above, claim(s)			is/are perioring in the application. is/are withdrawn from consideration.
Claim(s)	11/		is/are allowed.
Claim(s)/ Claim(s)	710-19		is/are rejected.
Claim(s)			is/are objected to.
.,		are su	bject to restriction or election requirement.
oplication Papers			
See the attached Notice of	f Draftsperson's Patent [Drawing Review, PTO-948	
The drawing(s) filed on			o by the Examiner.
The proposed drawing cor	rection, filed on		is approved disapproved.
The specification is objects	ed to by the Examiner.	•	
The oath or declaration is	objected to by the Exam	iner.	
ority under 35 U.S.C. § 119)		
Acknowledgment is made	of a claim for foreign pric	ority under 35 U.S.C. § 119(a)-(d).	
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	one of the CERTIFIED	copies of the priority documents have	been
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Claim 5 is rejected under 35 U.S.C. § 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 5 claims retention of >90% activity under certain conditions at 250C and <90% activity at 300C. There is apparently no teaching of the activity of the enzyme under these conditions in the instant specification. This rejection was not addressed in the instant amendment and so is repeated.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7 and 16 are rejected under 35 U.S.C. § 102(b) as being anticipated by Mitsugi, et al. (A) or Boyer, et al. (B or C). Mitsugi, et al. teach an alpha amylase from Bacillus subtilis AJ-3255

that has an optimal pH of 9 at 40°C and is effective between pH 6 and 11 at 40°C (column 3, lines 47-53). Boyer, et al. (B) teach an alpha amylase from a new species of Bacillus (column 1, lines 30-32) that has a "maximum activity at pH 9 to pH 9.2 and at about 50°C" (column 4, lines 24-25). Boyer, et al. (C) teach a amylase with a pH optima of 9.2, Bacillus species B-3881. It is maintained that these enzymes are the enzyme of the instant claims, absent very convincing proof to the contrary. This rejection is repeated for the reasons given in the previous action. Applicant's arguments have been carefully considered but are not considered adequate to overcome the instant rejection.

Applicants simply allege that they "have discovered a new class of α -amylases that are distinct from previously known α -amylases in terms of their amino acid sequence and properties" and that the "Emaminer is merely speculating that the presently claimed enzymes are identical to those disclosed in the cited reference" and that "it is Applicants' position that the presently claimed enzymes are patentably distinct from the" enzymes of the cited reference. No further argument or evidence of this is offered.

In re Best, Bolton and Shaw 195 USPQ 430, 433 (CCPA 1977) state that "Where, as here, the claimed and prior art products are identical or substantially identical, or are produced by identical or substantially identical processes, the PTO can require an applicant to prove that the prior art products do not necessarily or inherently possess the characteristics of his claimed product". In re Brown and Safer 173 USPQ 685, 688 (CCPA 1972) state that "We are therefore of the opinion that when the prior art discloses a product which reasonably appears to be either identical with or only slightly different than a

product claimed in a product-by-process claim, a rejection based alternatively on either section 102 or section 103 of the statute is eminently fair and acceptable. As a practical matter, the Patent Office is not equipped to manufacture products by the myriad of process put before it and then obtain prior art products and make physical comparisons therewith." The examiner has rejected the claims as being anticipated or obvious over three references that appear prima facie to be the enzyme of the instant claims and given reason why he has so concluded. Therefor the burden of proof shifts to the applicants to disprove this and they have not done so.

Claims 8 and 17-19 are rejected under 35 U.S.C. § 103(a) as being impatentable over Mitsugi, et al. (A) or Boyer, et al. (B or C). This rejection has not been separately argued from the 35 U.S.C. § 102(b) rejection, which argument has been addressed *infra*.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EMFIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EMPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles L. Patterson, Jr., Ph.D. whose telephone number is (703) 308-1834. The examiner can normally be reached on any day of the week from 7:30 AM until 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy, can be reached on (703) 308-3804. The fax phone number for this Group is (703) 305-7401.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Patterson December 1, 2000

> CHARLES L. PATTERSON, JR. PRIMARY EXAMINER GROUP 1800